

FIG. 1 VUV SPECTRA OF STANDARD UV EXCIMER GRADE SILICA (GLASS A),
DRY FUSED SILICA (GLASS B) AND DRY FUSED SILICA CONTAINING 0.8 wt. % F (GLASS C).

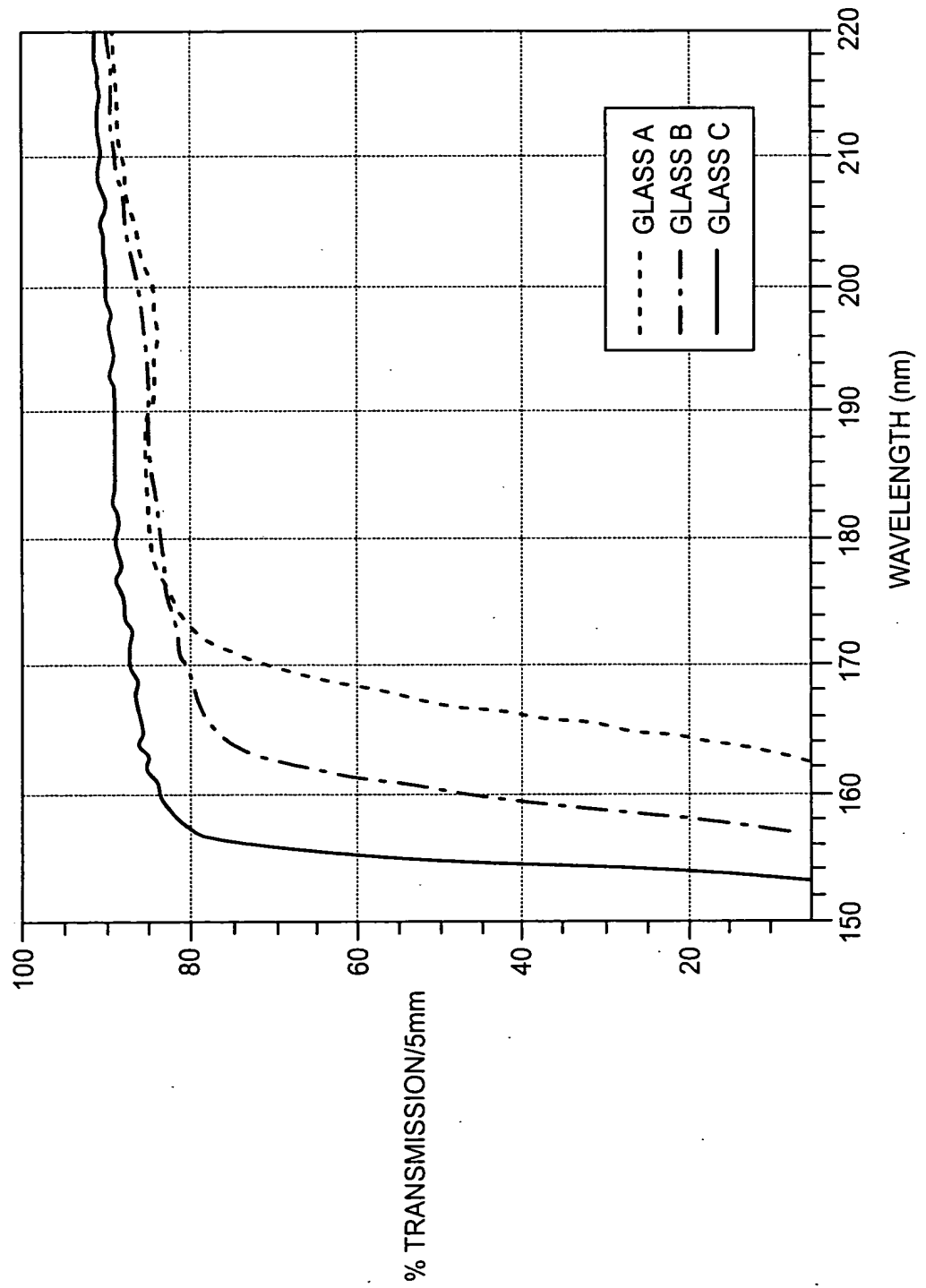


FIG. 2 OPTICAL DENSITY AS A FUNCTION OF SAMPLE THICKNESS FOR GLASS C.

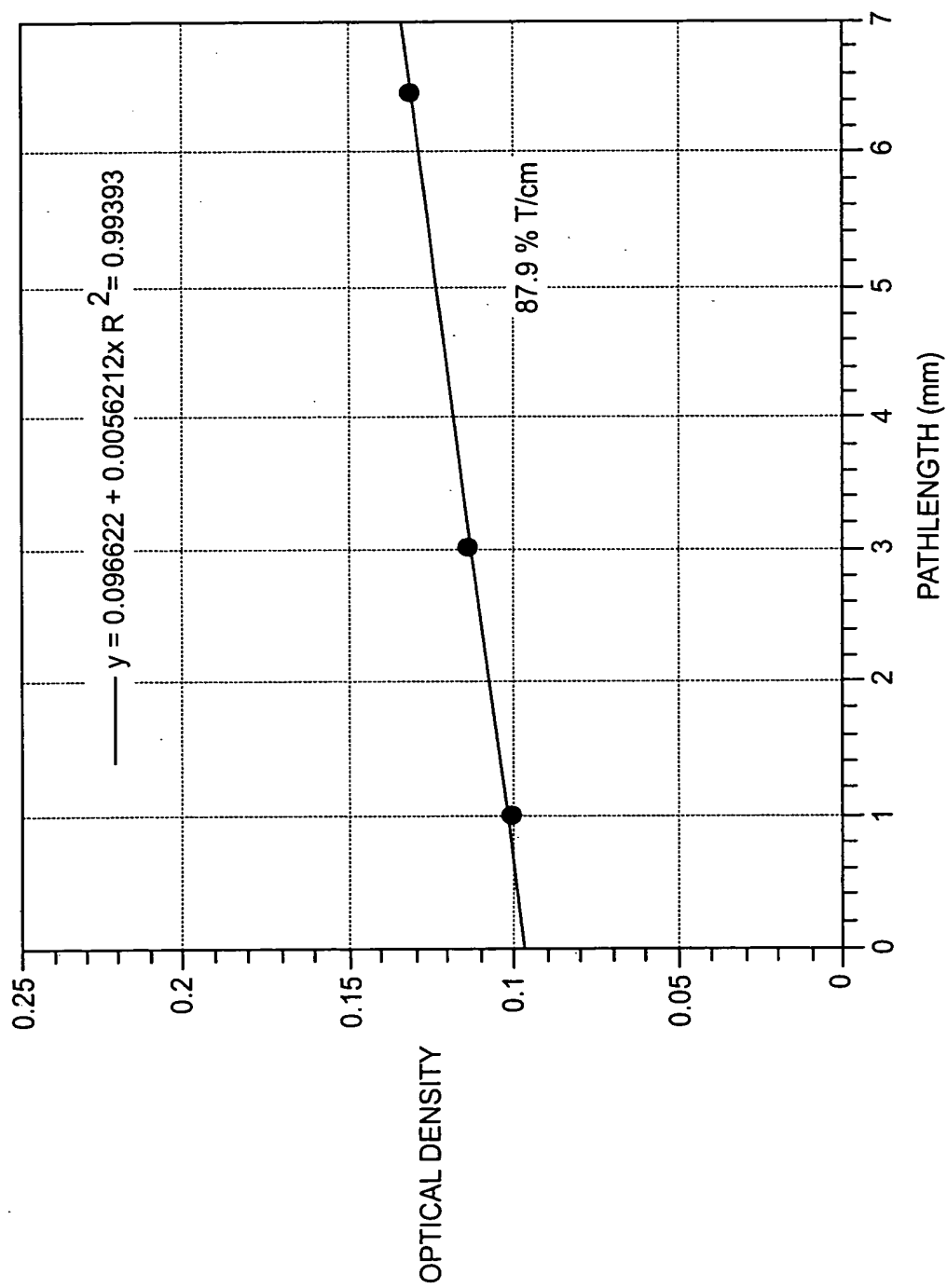


FIG. 3

ABSORPTION SPECTRA TAKEN BEFORE AND AFTER EXPOSURE TO F_2 LASER RADIATION COMPARING DRY SILICA WITHOUT F (GLASS B) AND A 0.2 wt. % F-DOPED, DRY SILICA (GLASS D). DATA IS FOR 1.1 mm THICK SAMPLES.

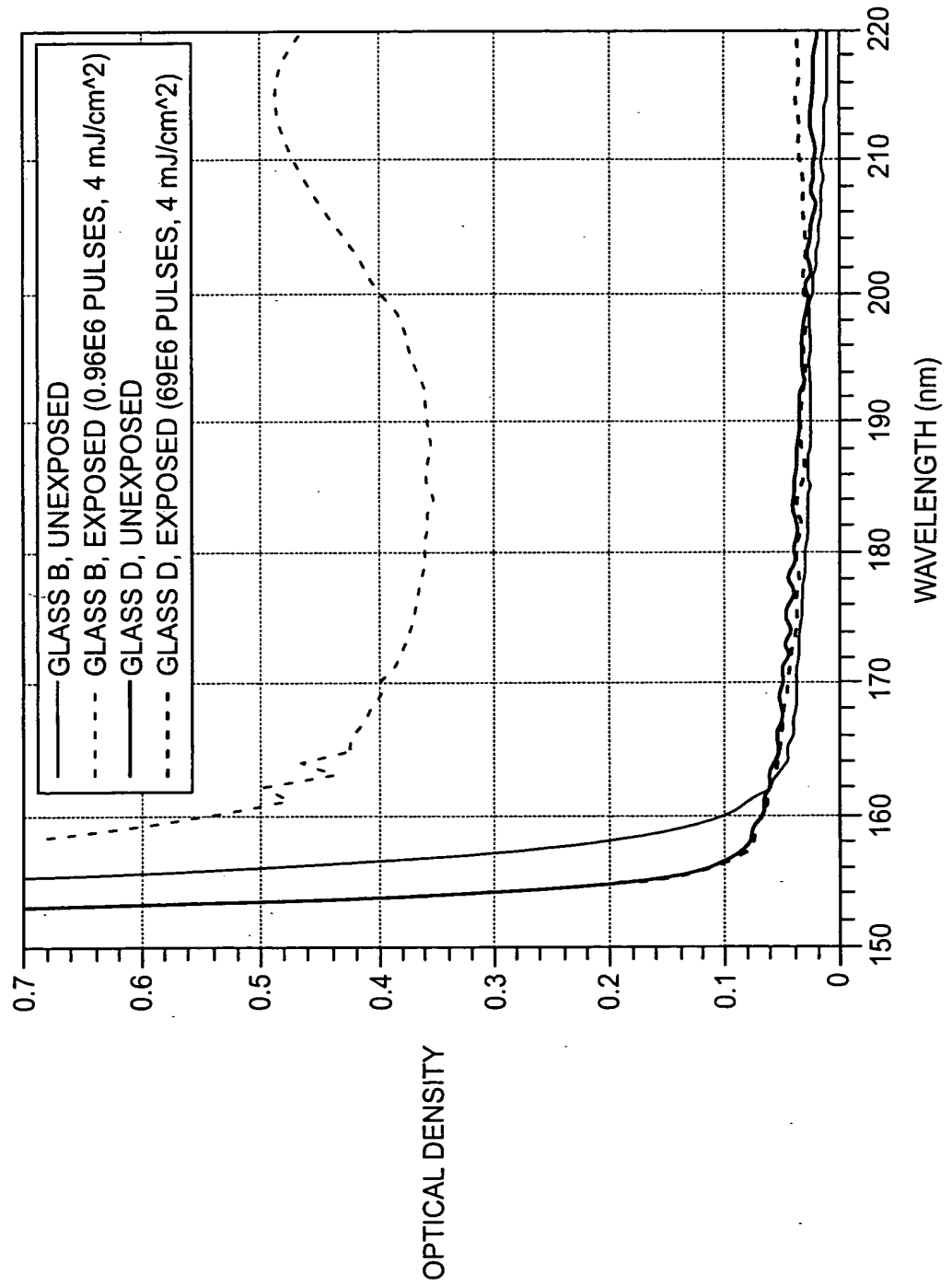


FIG. 4 REFRACTIVE INDEX AS A FUNCTION OF WAVELENGTH FOR GLASS E (0.8 wt. % F)
SHOWING 3-TERM SELLMIEIER FIT AND EXTRAPOLATION TO 157-nm.

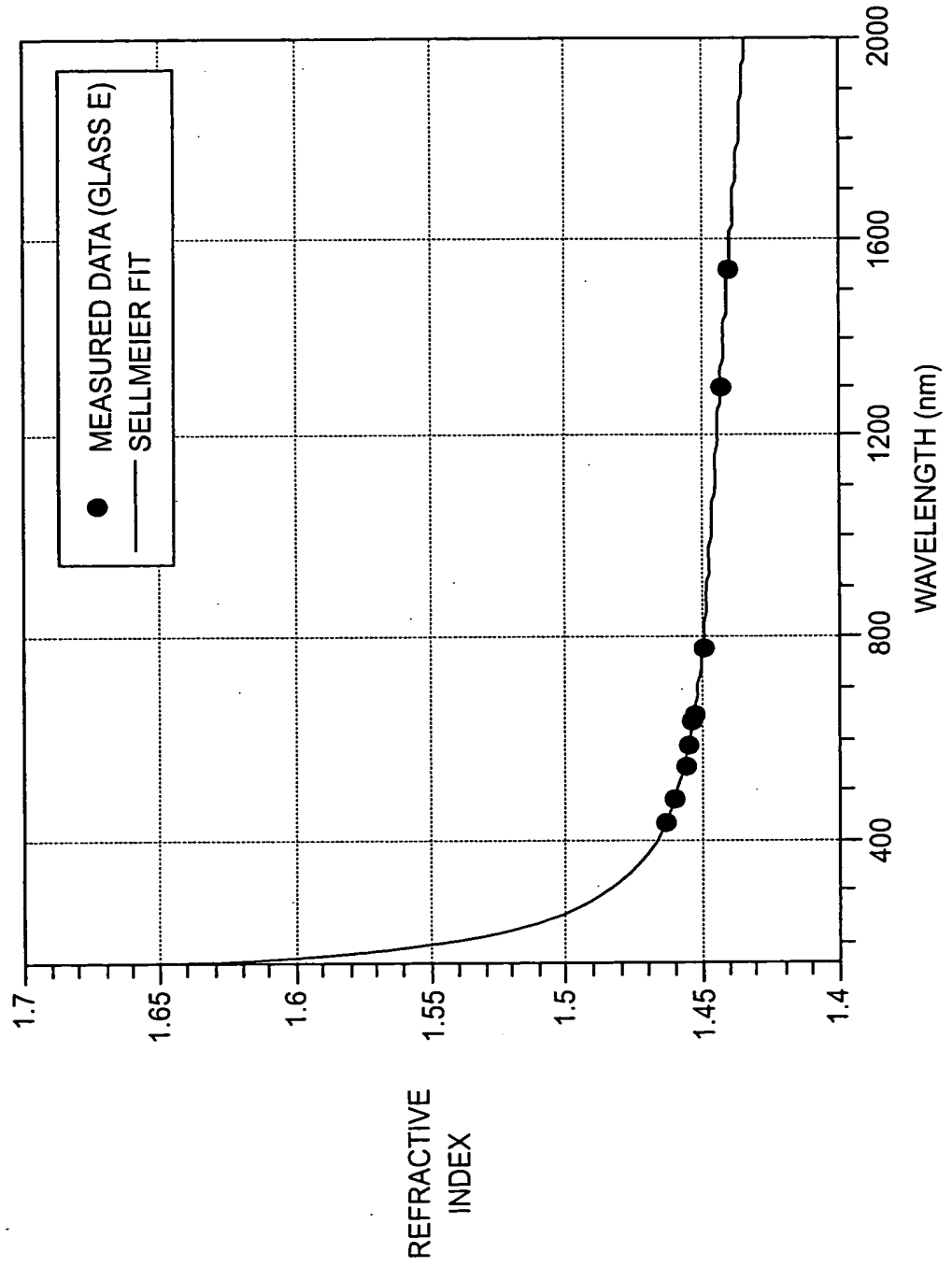


FIG. 5 435.8-nm REFRACTIVE INDEX (MEASURED) AS A FUNCTION OF FLUORINE CONTENT.

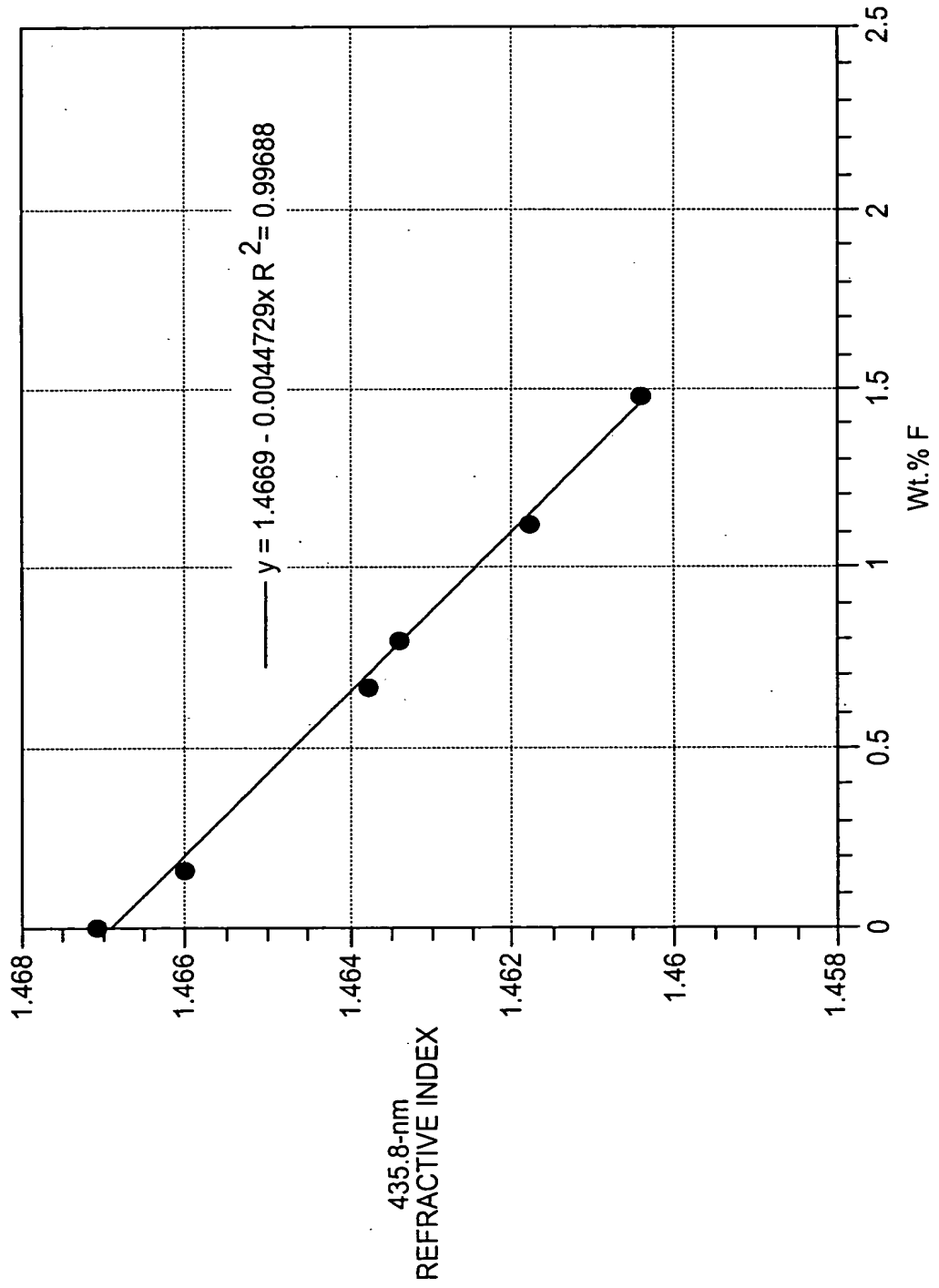


FIG. 6 157-nm REFRACTIVE INDEX (CALCULATED FROM SELLMEIER FIT)
AS A FUNCTION OF FLUORINE CONTENT.

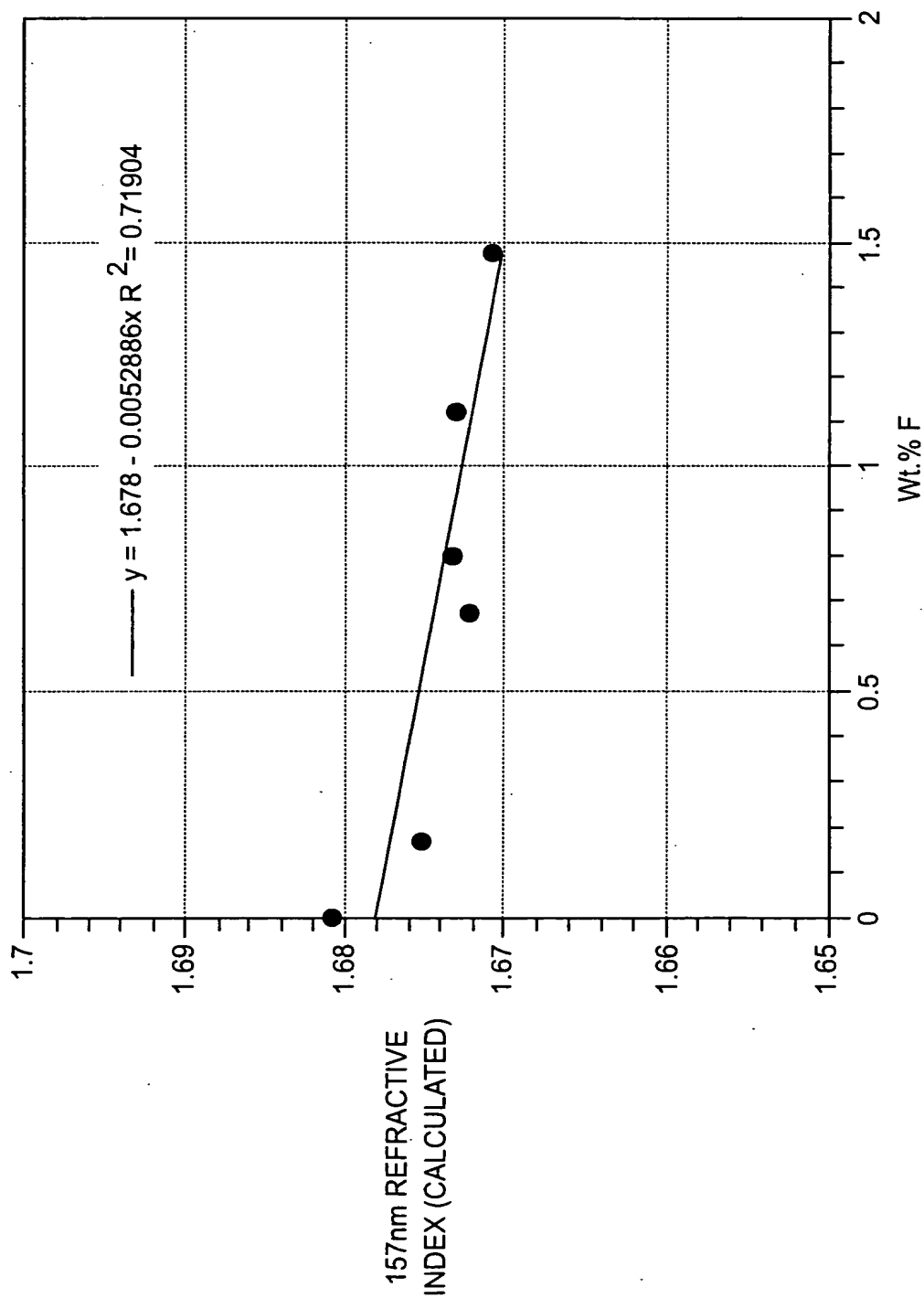


FIG. 7 COEFFICIENT OF THERMAL EXPANSION AS A FUNCTION OF FLUORINE LEVEL.

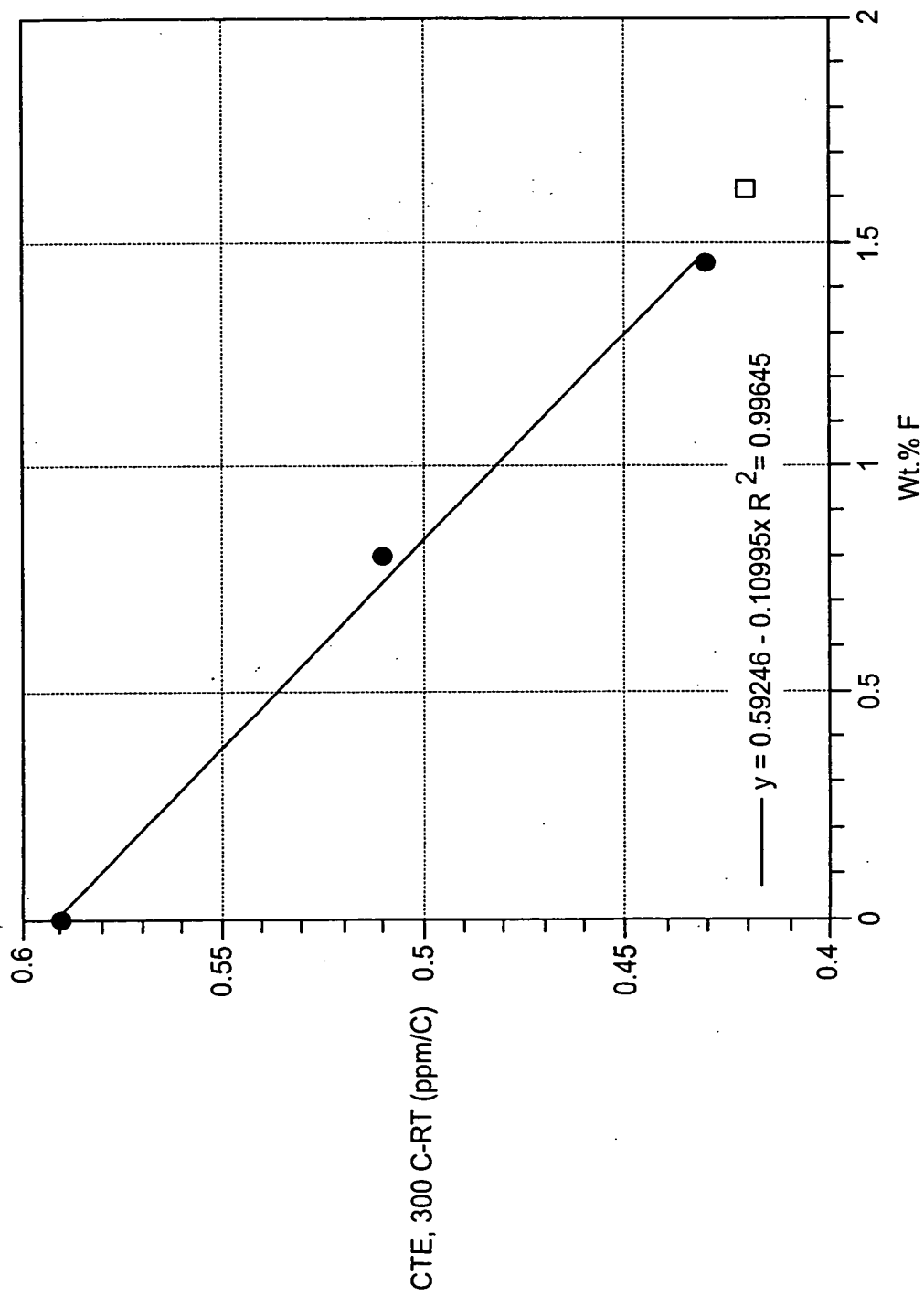


FIG. 8

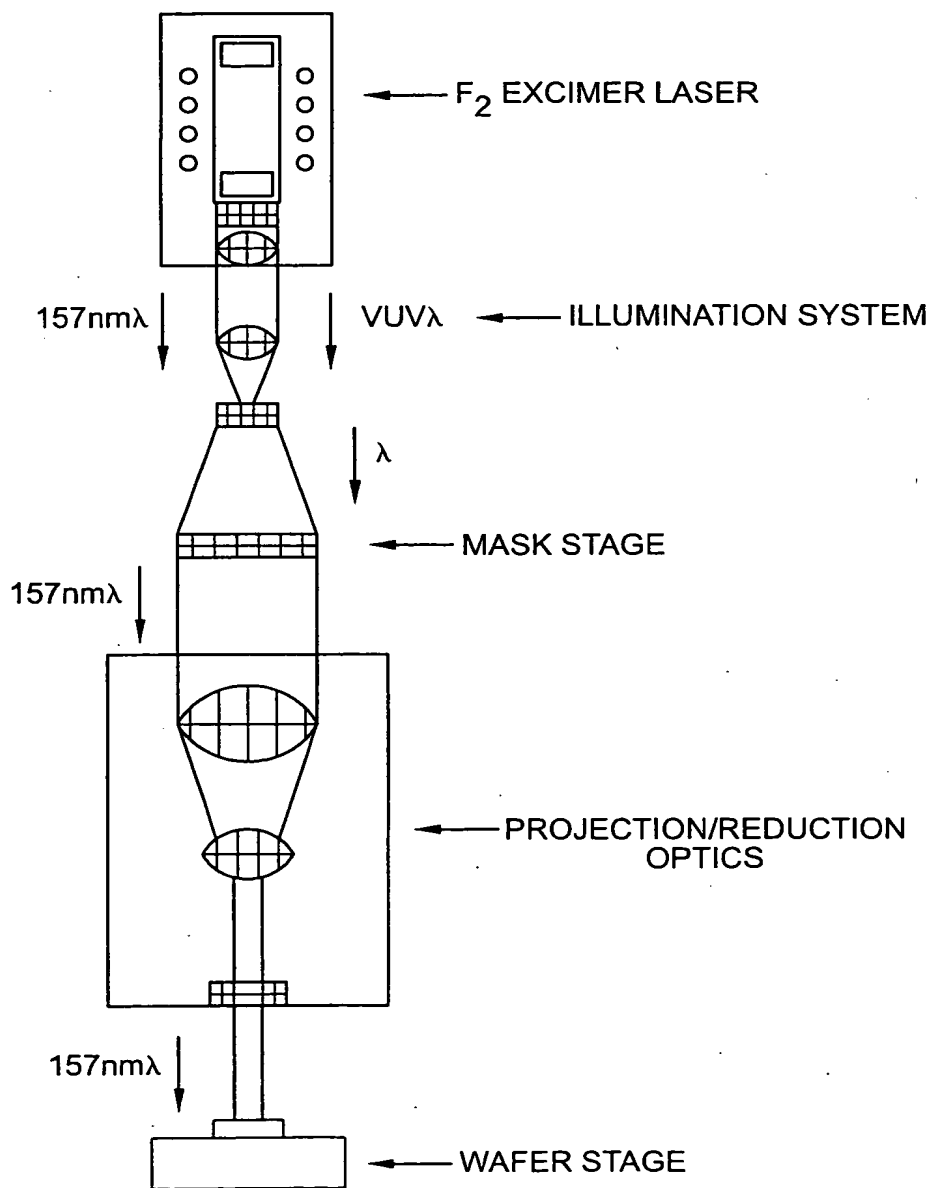


FIG. 9

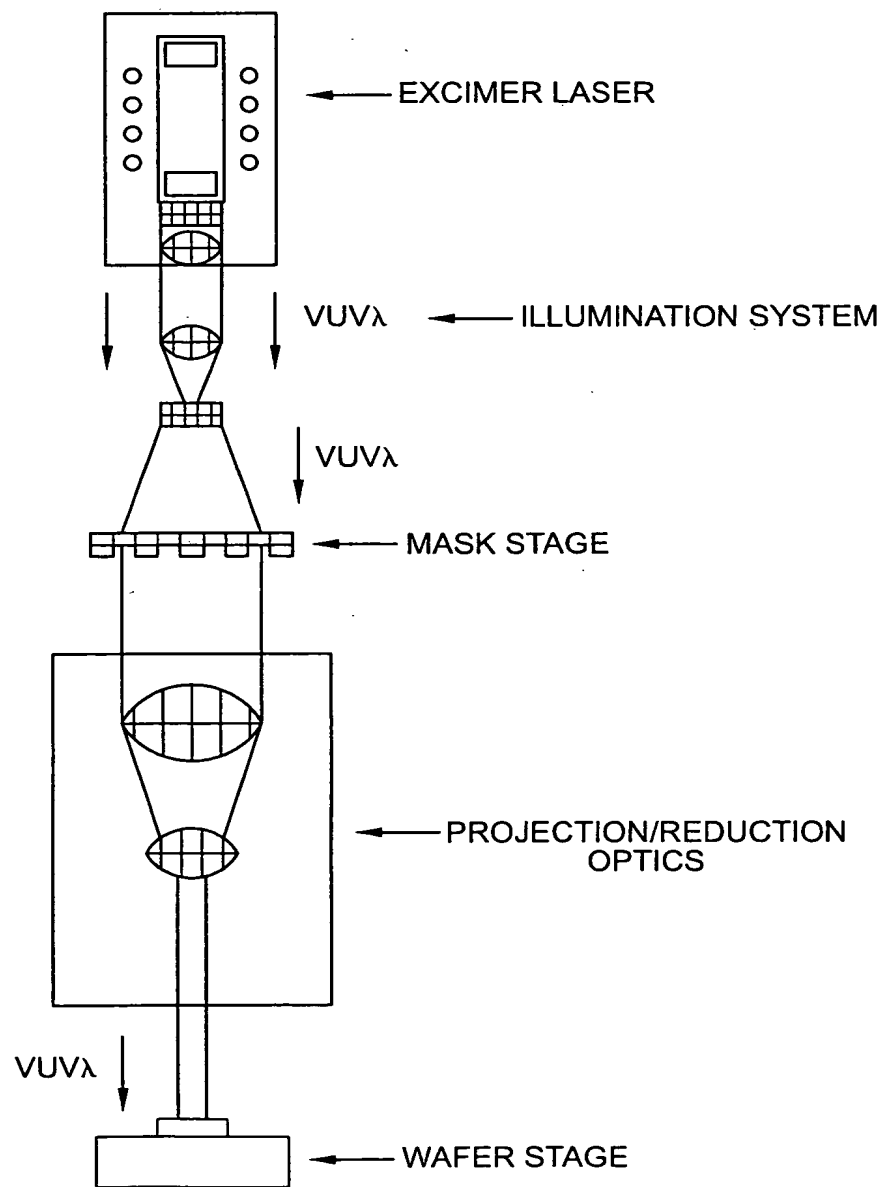


FIG. 10

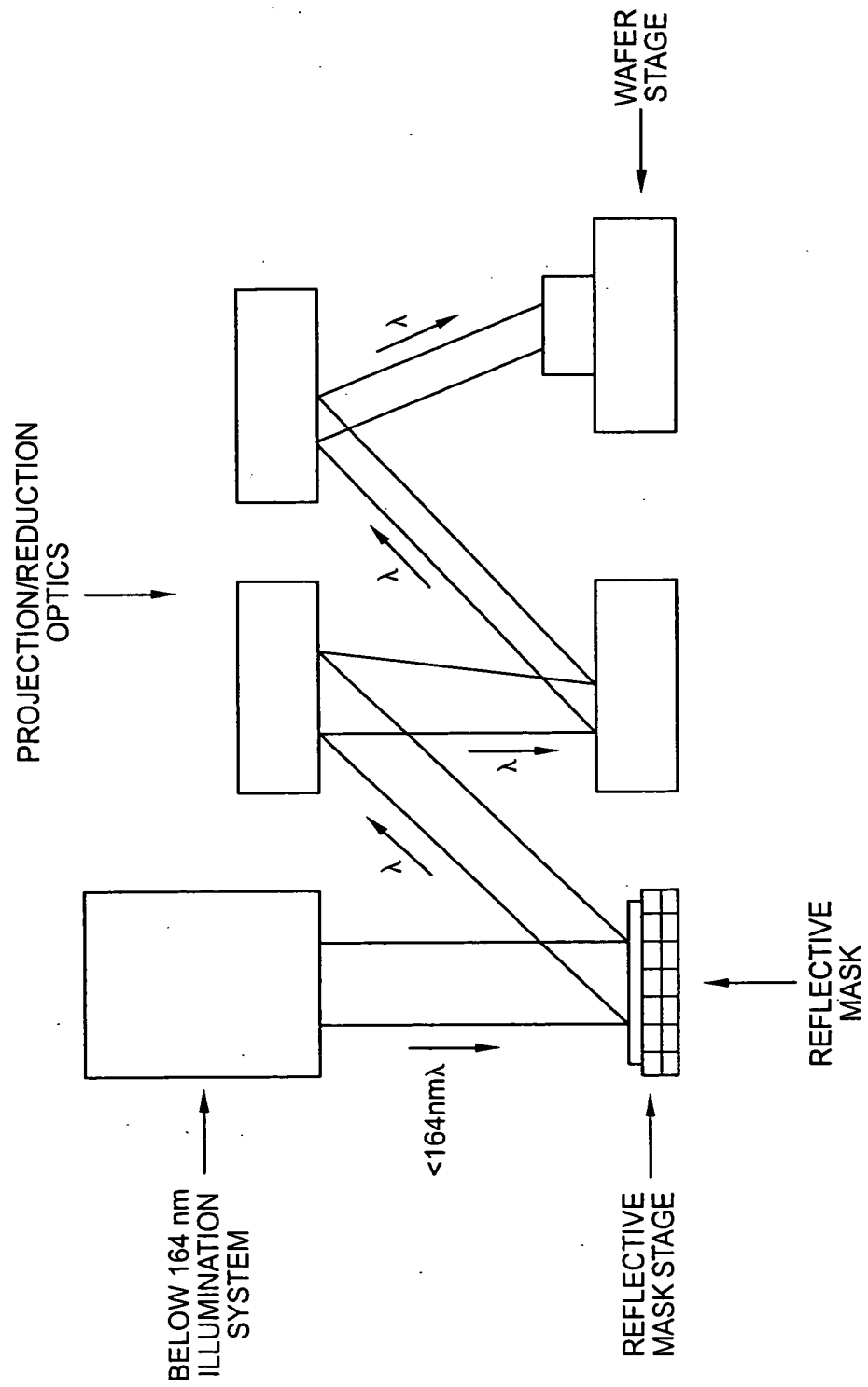


FIG. 11

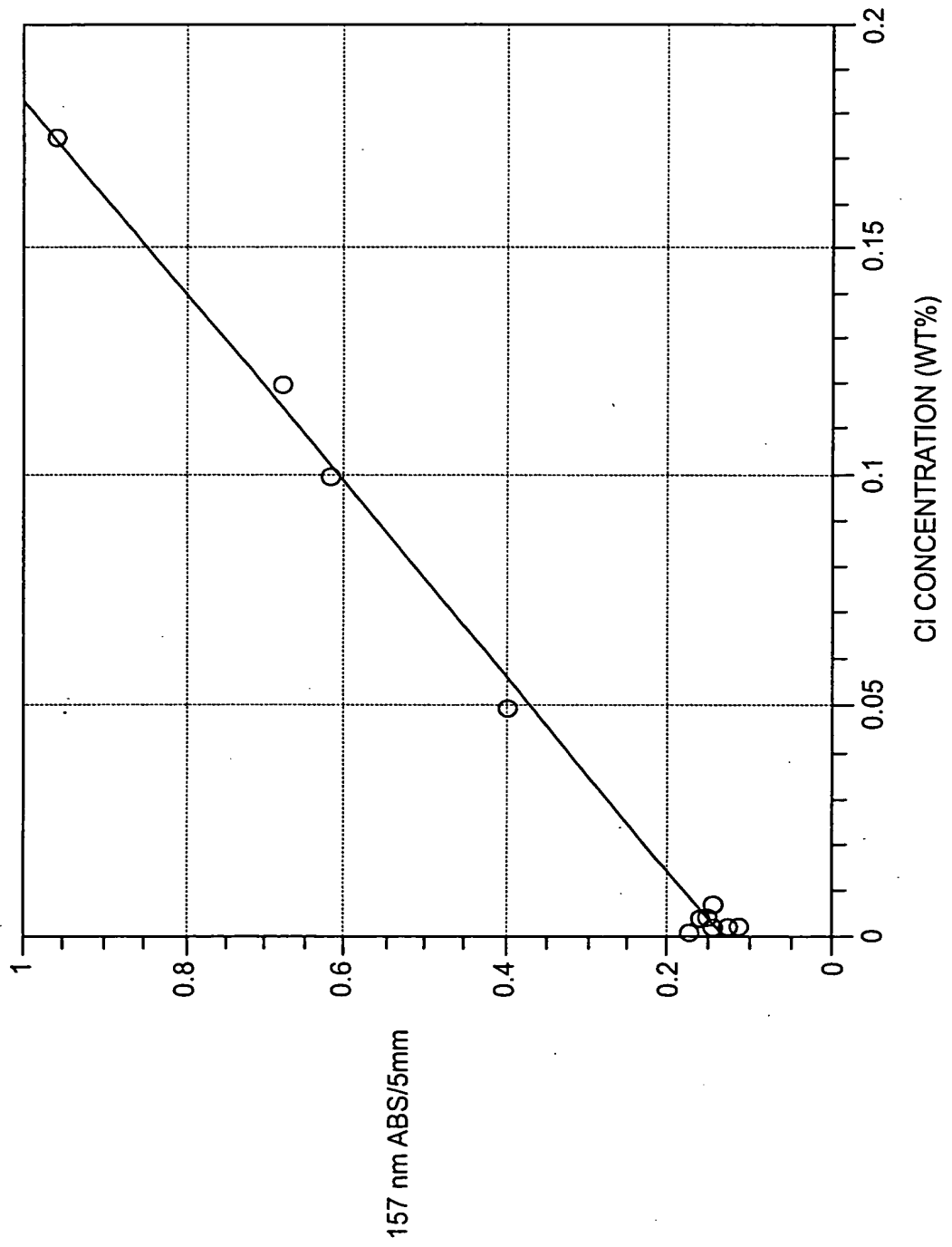
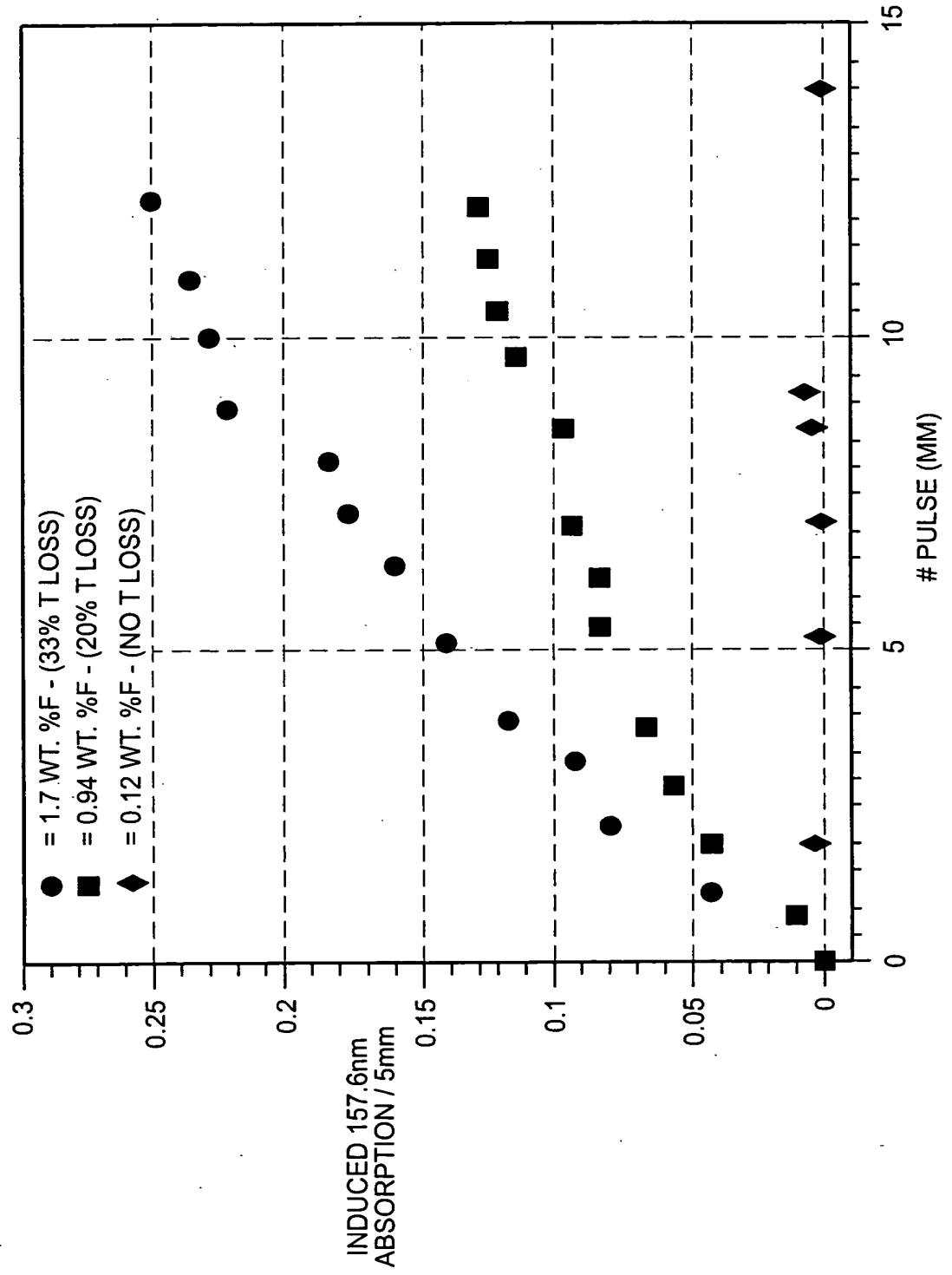
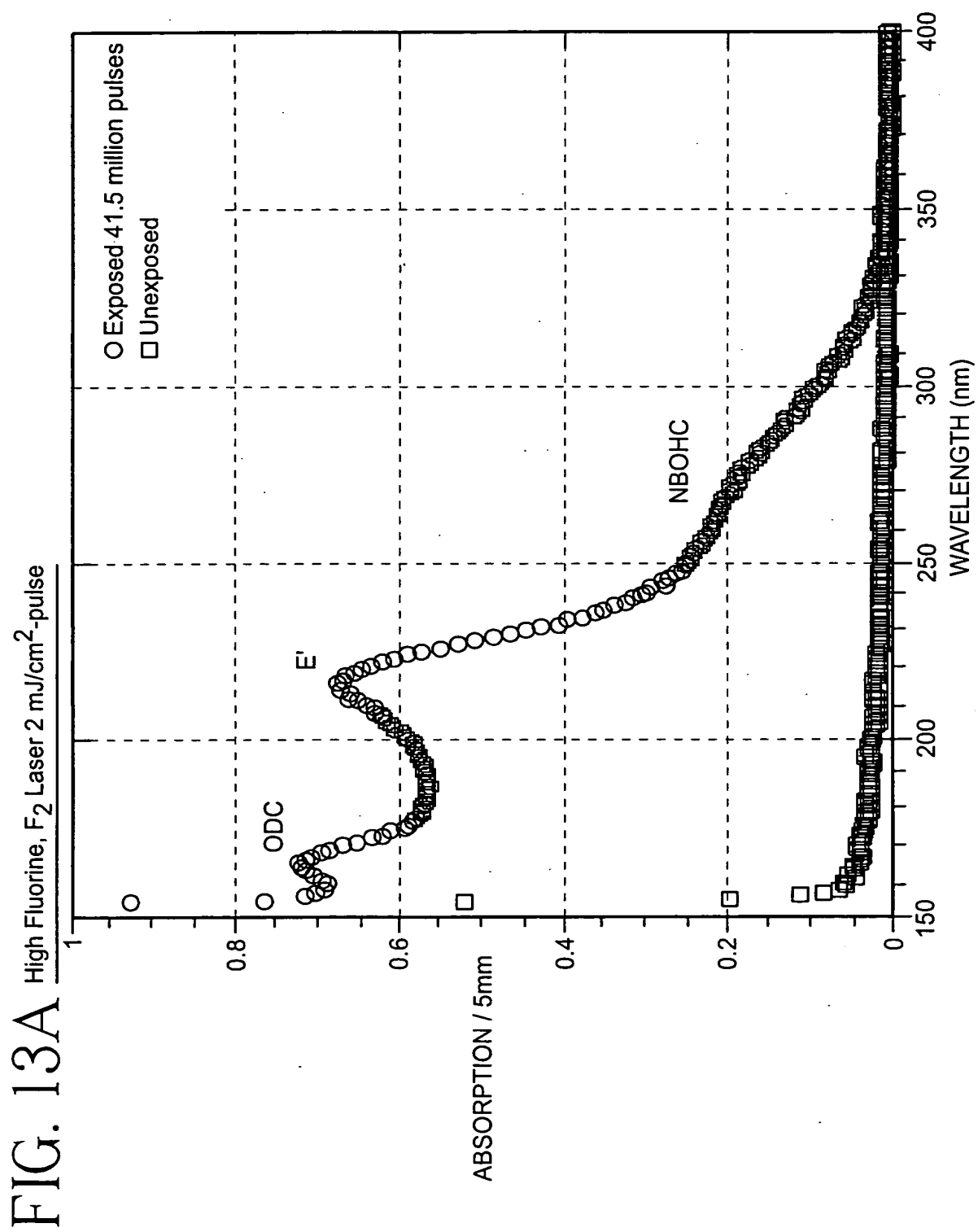
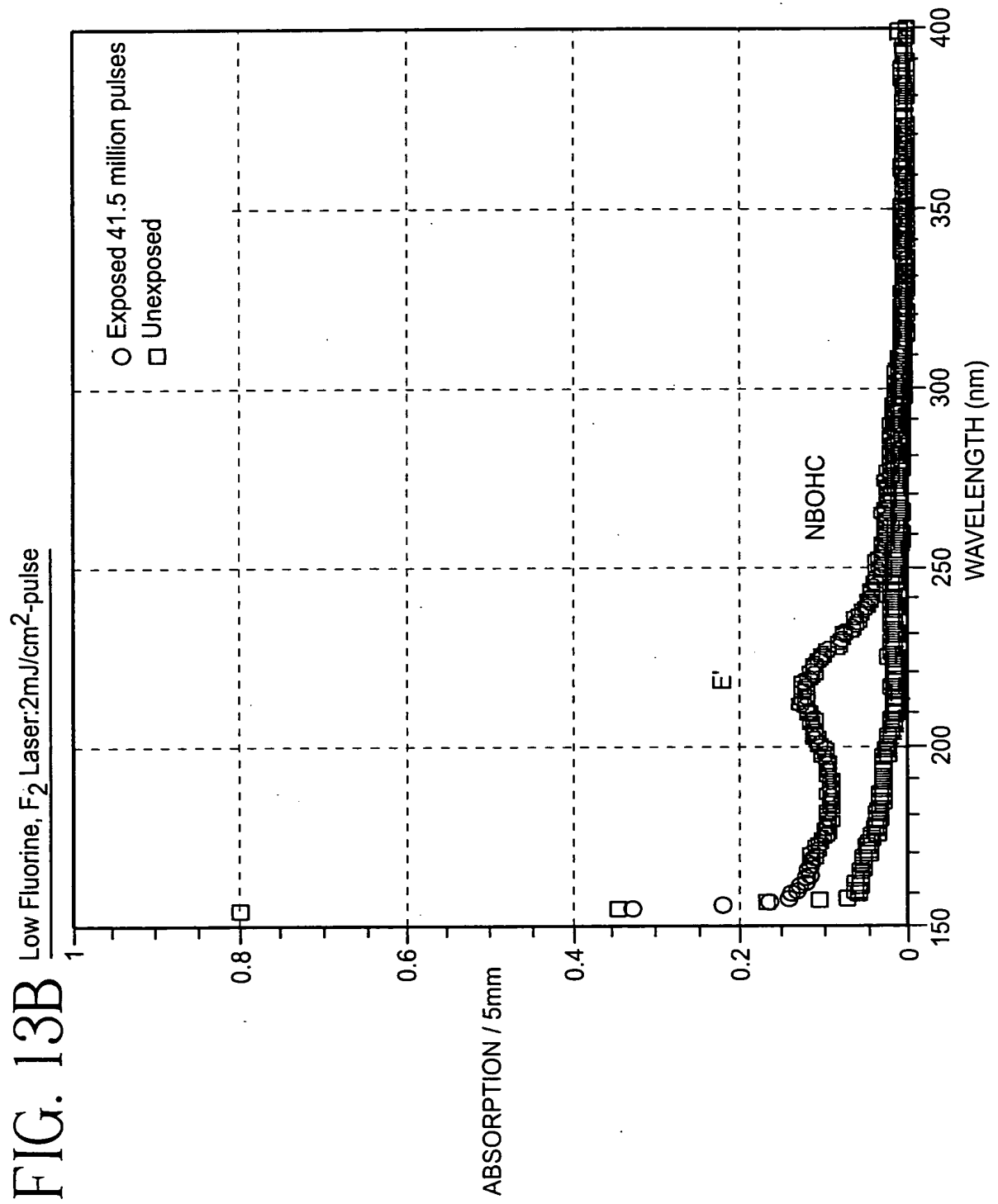
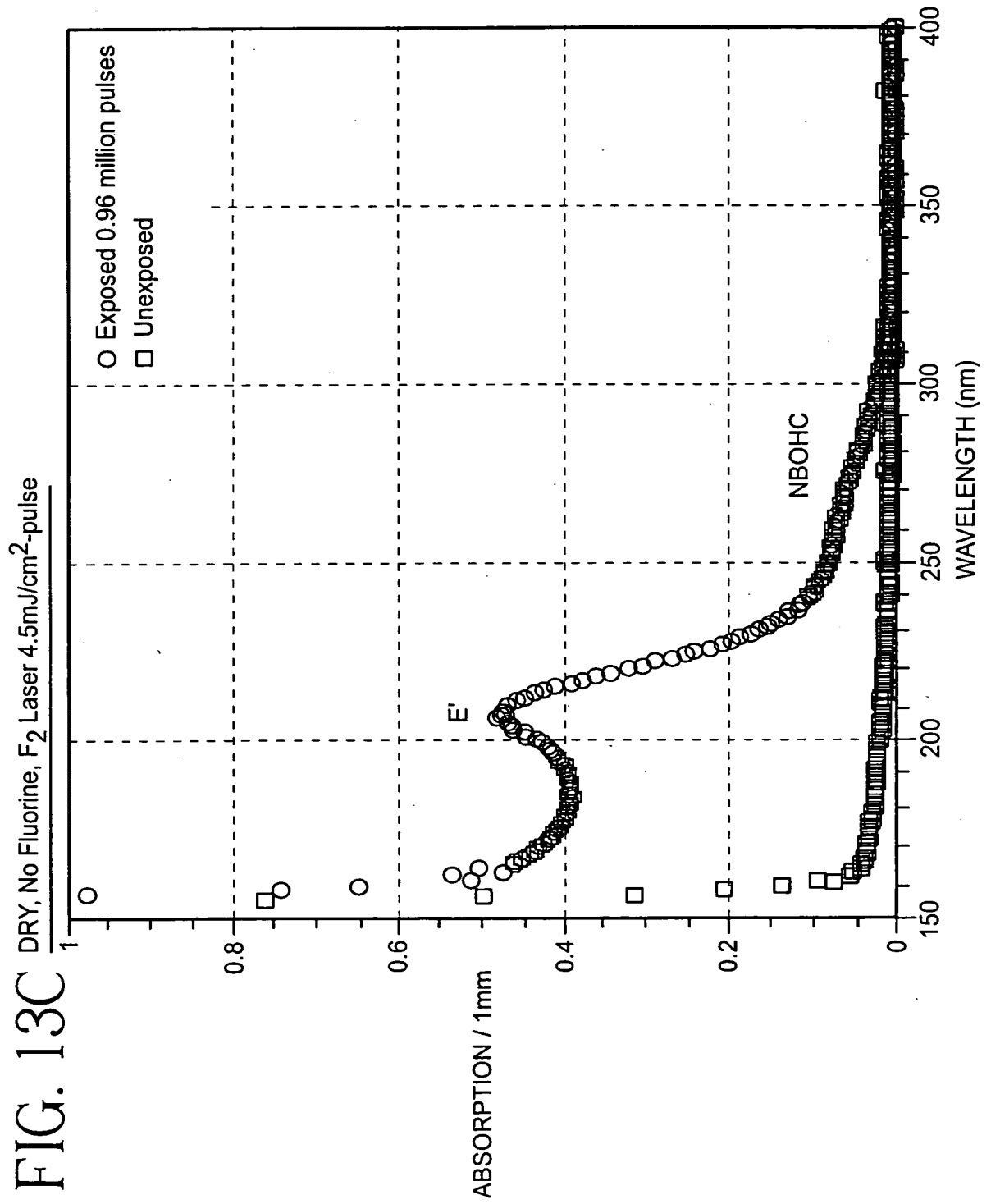


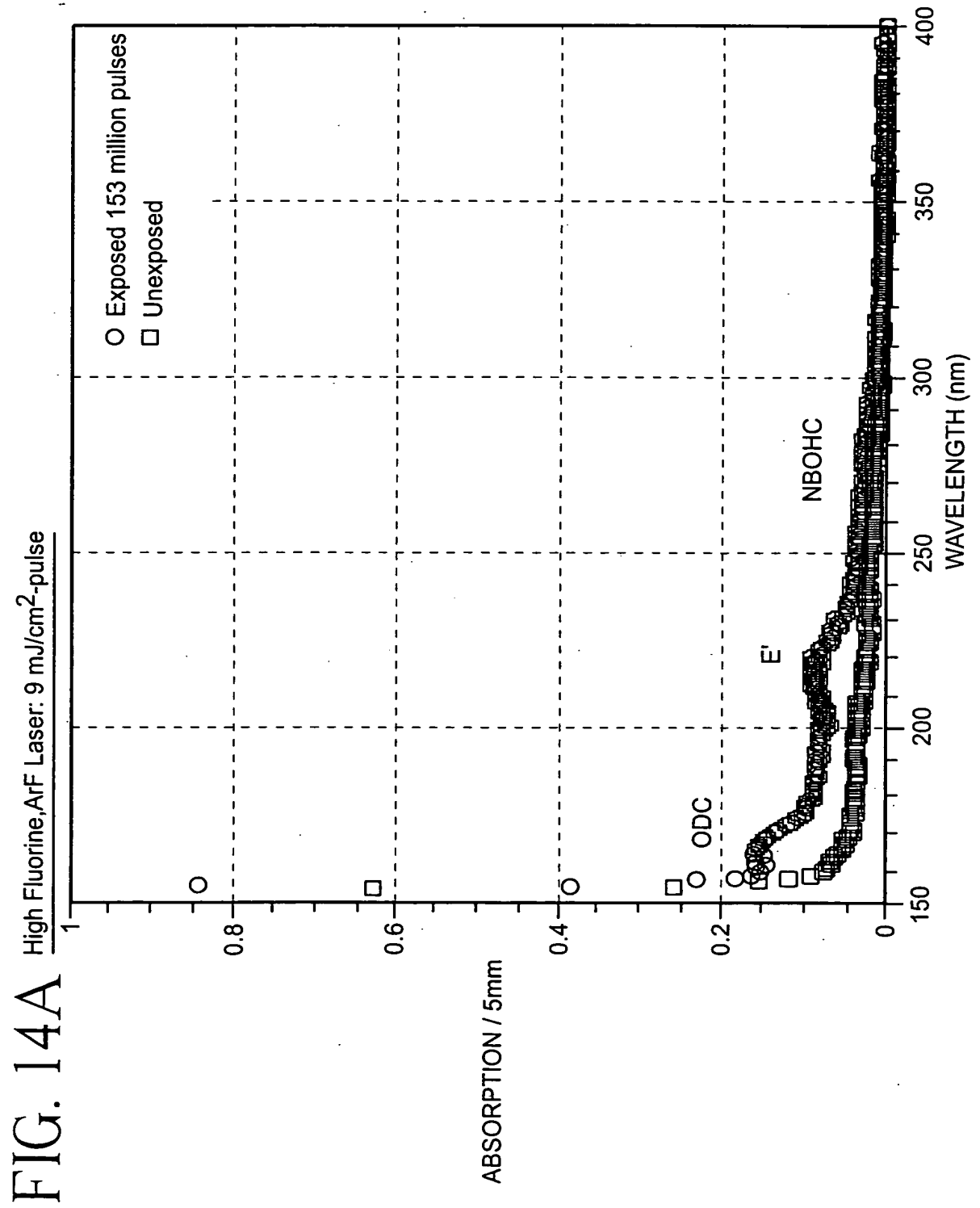
FIG. 12 F_2 EXCIMER LASER (2 mJ/cm^2 -PULSE)

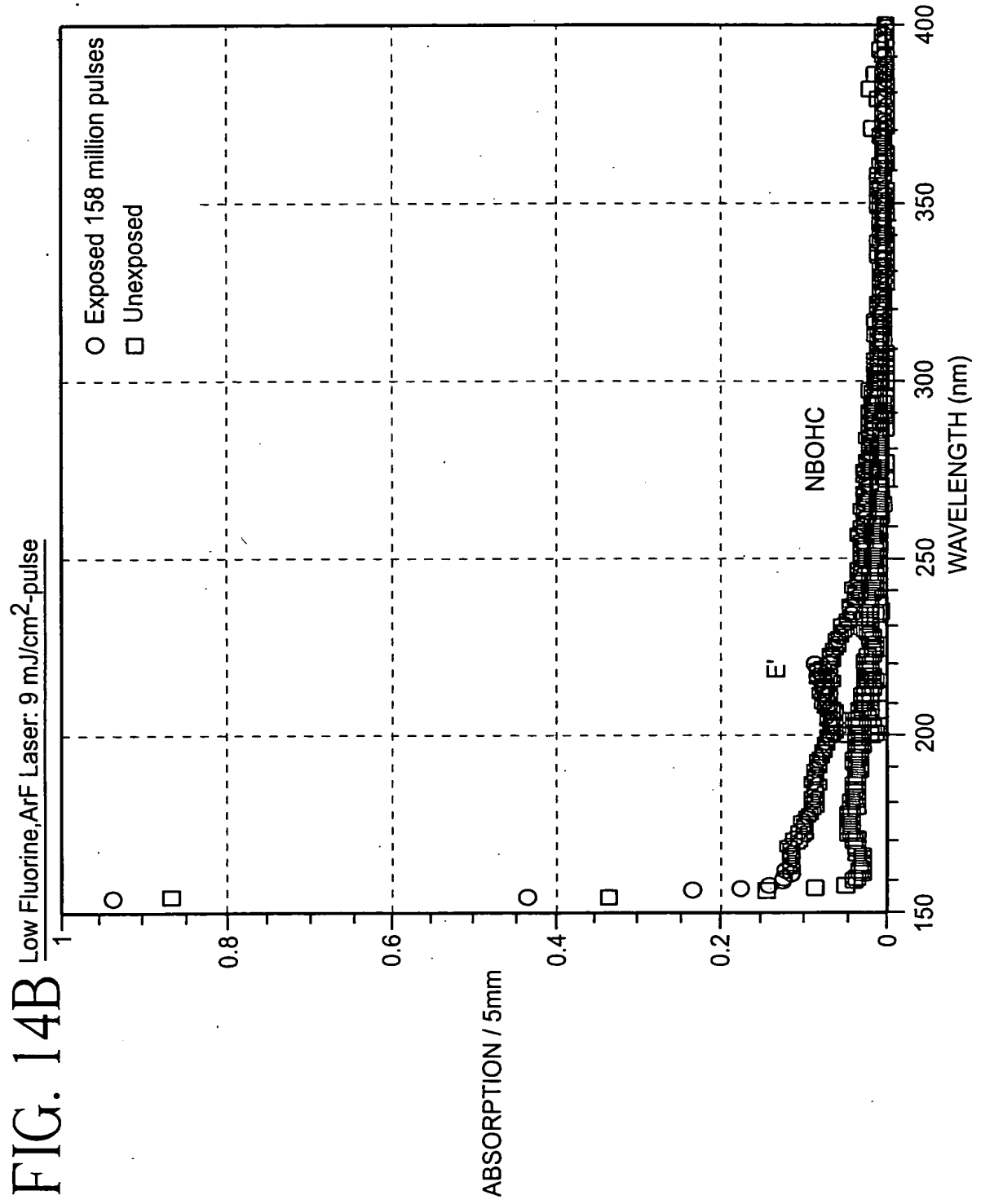












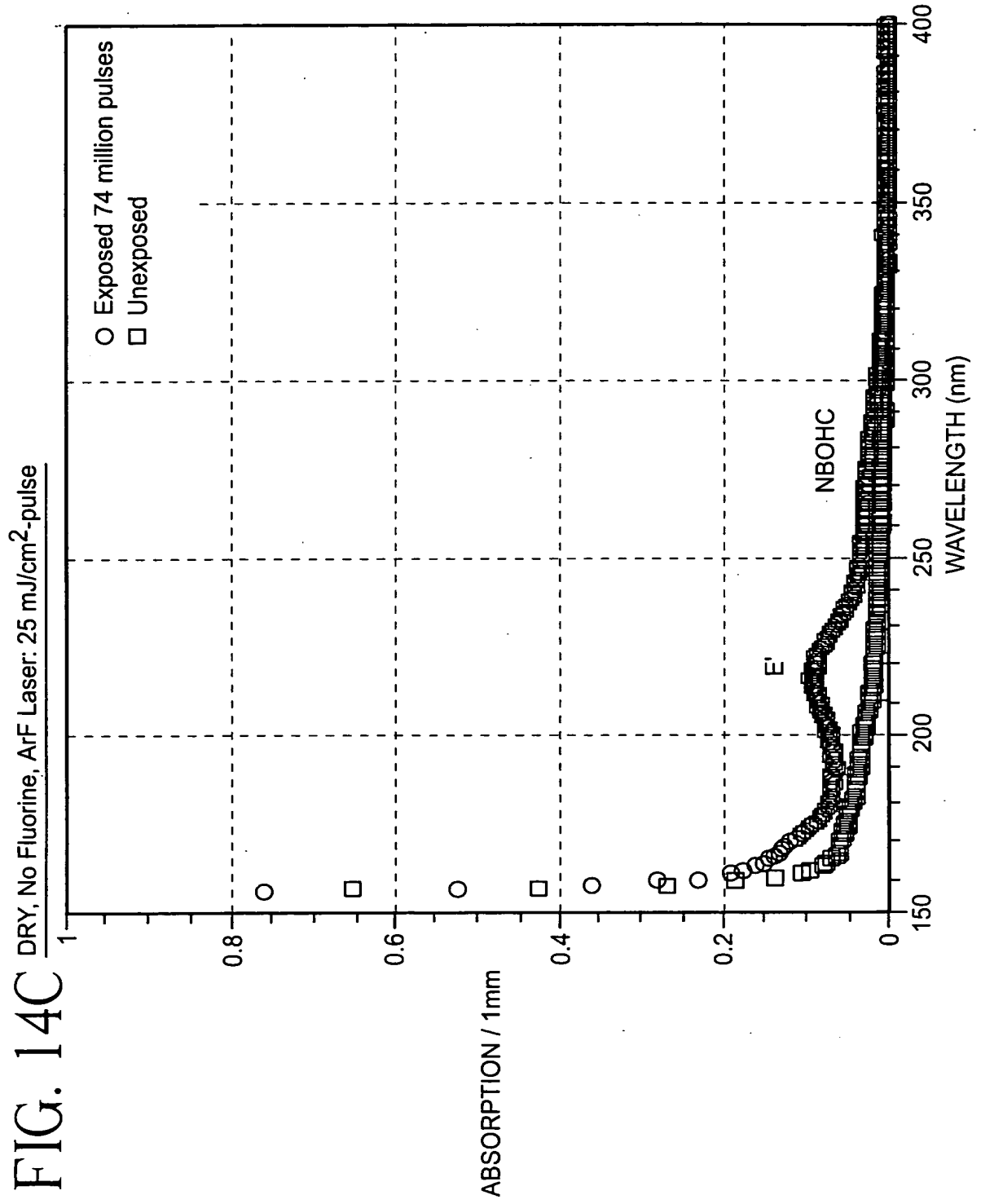


FIG. 15 157.6 nm On-Line Transmission Comparison

